Wong and Dolmatz

BIOLOGY

Laboratory Data Book

IDEAS AND INVESTIGATIONS IN SCIENCE

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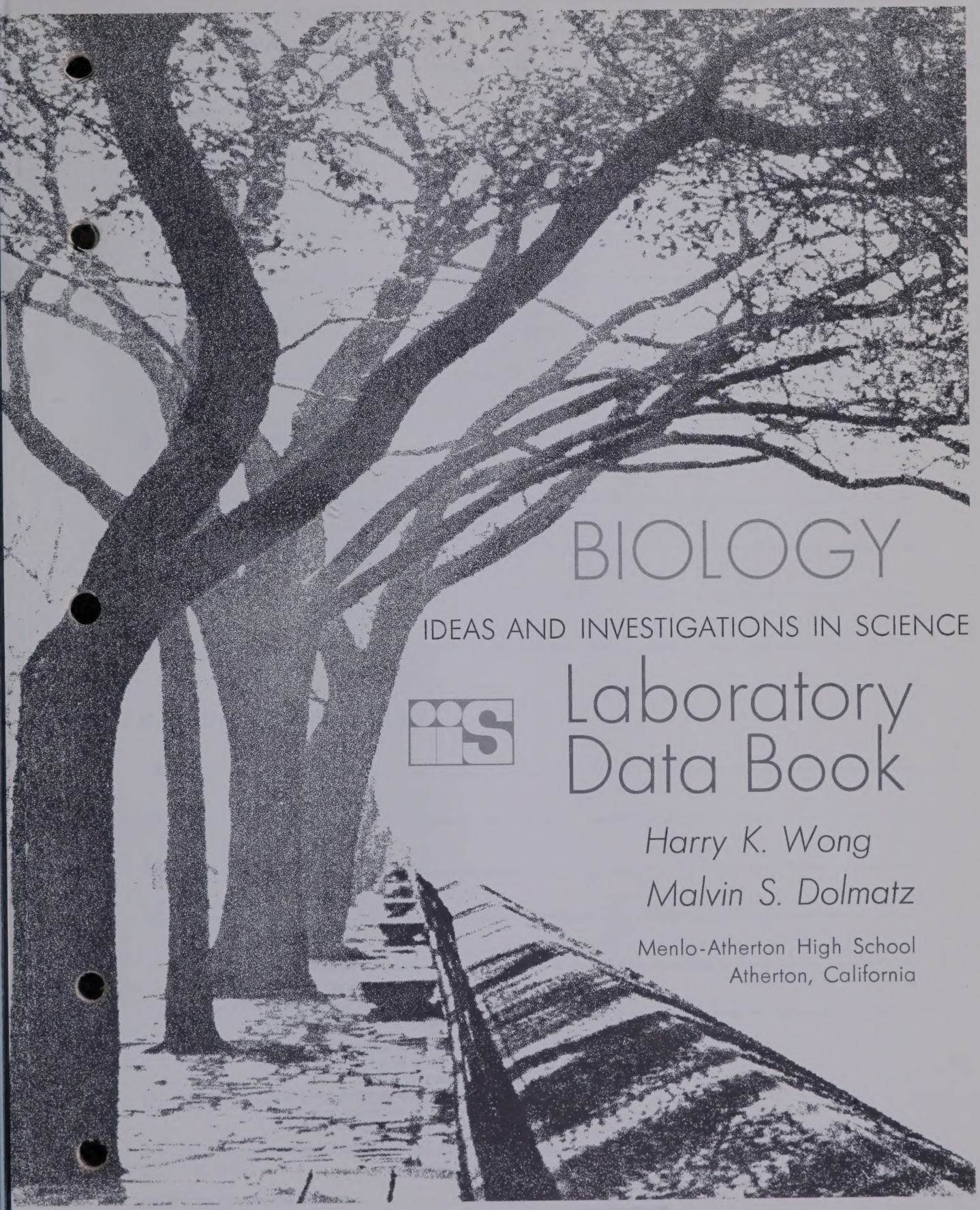
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BIOLOGY

IDEAS AND INVESTIGATIONS IN SCIENCE

Laboratory Data Book

Harry K. Wong

Malvin S. Dolmatz

Menlo-Atherton High School
Atherton, California

Prentice-Hall, Inc., Englewood Cliffs, New Jersey

LABORATORY DATA BOOK
Ideas and Investigations in Science–BIOLOGY
Harry K. Wong *and* Malvin S. Dolmatz

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5

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UNIVERSITY OF ALBERTA

Name _____

Date _____ Class _____

Data Sheet

A. JASMINE OR PEKOE?

1. _____
2. _____
3. _____
4. _____

B. HOW'S YOUR BREATH?

5. _____
6. _____
7. _____
8. _____

C. HOW ARE YOUR MUSCLES?

9. _____
10. _____
11. _____
12. _____
13. _____

_____

D. "ONE GIANT LEAP FOR MANKIND"

14. _____

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2378795

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name _____

Date _____ Class _____

Data Sheet

A. ANOTHER SNACK?

1. _____

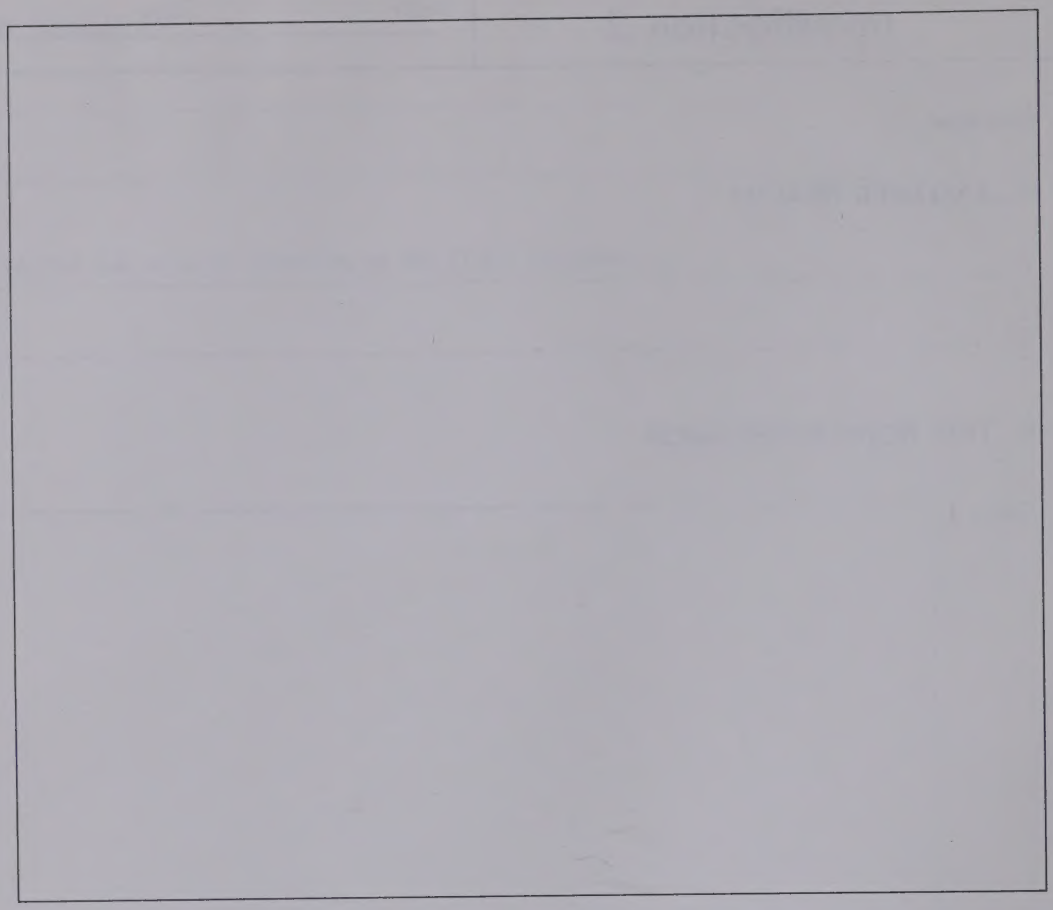
2. _____

B. THIS WORM'S TOO MUCH

Space *a*

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Space *b*



C. LET'S PLAY NINE SQUARE

3. _____

_____

D. YOU CAN SEE BUT STILL BE BLIND

4. _____

5. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name _____

Date _____ Class _____

Data Sheet

A. LET'S WRAP IT UP!

1. _____
2. _____

_____

3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

_____

9. _____
10. _____
11. _____
12. _____

B. THE MYSTERY BOXES

13. _____

_____

14. _____

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TABLE NO. 1

IDENTIFYING OBJECTS IN MYSTERY BOXES

Box	Number of Objects	1 Pt.	Kind of Objects (Glass, Metal...)	2 Pts.	Name of Objects (Bottle, Pencil...)	2 Pts.
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
K						
Subtotal						
Grand Total (add all three subtotals)						

C. EACH GUESS IS A GUIDE

15. _____

_____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name _____

Date _____ Class _____

Data Sheet

A. WHAT'S A PROPER EXPERIMENT?

1. _____

2. _____

3. _____

_____

4. _____

_____

5. _____

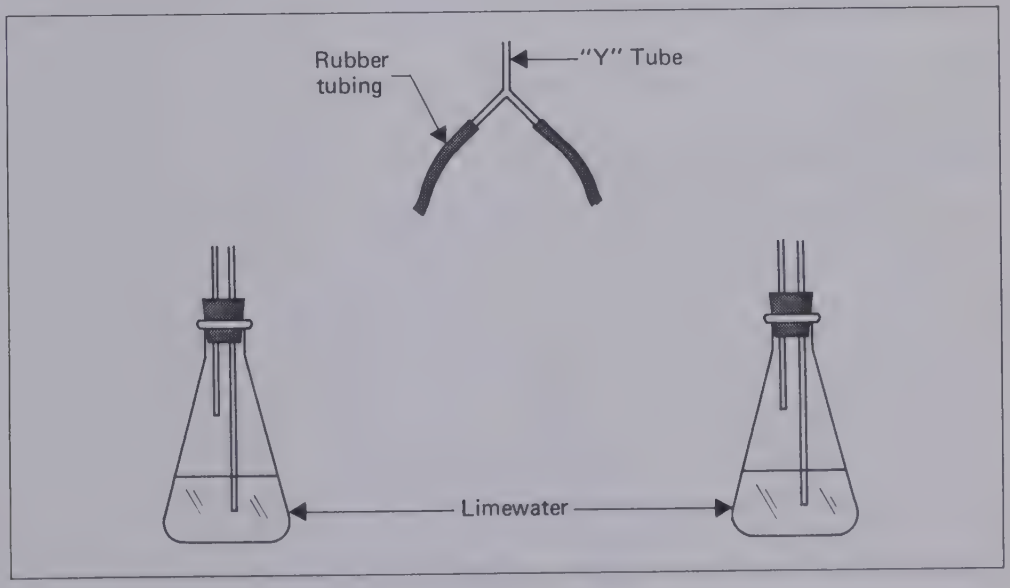
6. _____

7. _____

B. BUBBLE, BUBBLE, BUBBLE

8. _____

Drawing *a*



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9. _____

_____

10. _____

_____

11. _____

12. _____

13. _____

_____

14. _____

15. _____

16. _____

17. _____

C. WHERE'S PETALUMA?

18. _____

19. _____

20. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. CHOOSE A LABEL

1. _____

2. _____

3. _____

4.

Object	*Length*

B. DO YOU WEIGH MORE THAN WEIRD HAROLD?

5. _____

6.

Item	*Your Balance*	*Another Balance*	*Another Balance*	*Bath Scale*

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7. _____

8. _____

9. _____

_____

10. _____

_____

C. YOUR OWN MEASURING CUP

11. _____

_____

12. _____

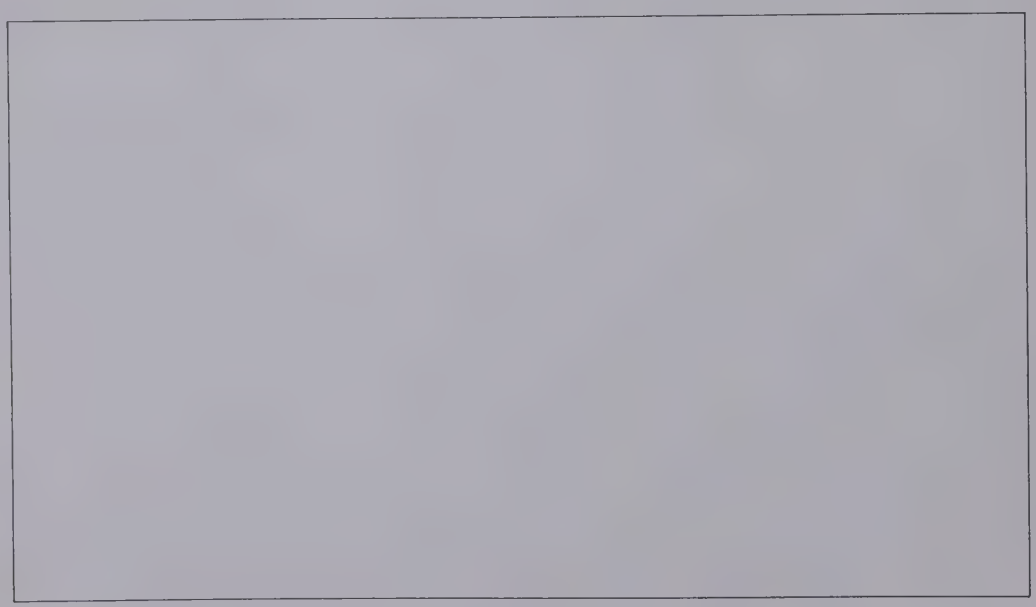
_____

13. _____

14. _____

15. _____

Space *a*



Name Date Class

16. Trial 1 _____

Trial 2 _____

Trial 3 _____

17. _____

18. Your average _____ Another student, opposite sex _____

Another student, same sex _____ Another student, opposite sex _____

Another student, same sex _____ Another student, opposite sex _____

Average _____ Average _____

19. _____

_____

_____

20. _____

21. _____

22. _____

23. _____

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

1. _____

2. _____

3. _____

4. _____

5. _____

A. HERE'S TO A LONG LIFE

6. _____

7. _____

8. _____

9. _____

_____

B. PLEASE WINK AT ME

10. _____

_____

11. _____

Space *a* (Use space on next page)

C. NICE AND NEAT

12. _____

_____

13. _____

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CONCEPT SUMMARY:

Space *a*

Name _____

Date _____ Class _____

Data Sheet

A. HOW TALL IS YOUR HISTOGRAM?

1. _____

2. _____

3. _____

_____

4. _____

5. _____

B. COLOR ME BROWN

6. _____

7. _____

8. _____

9. _____

10. _____

_____

C. HANG A LINE ON

11. _____

12. _____

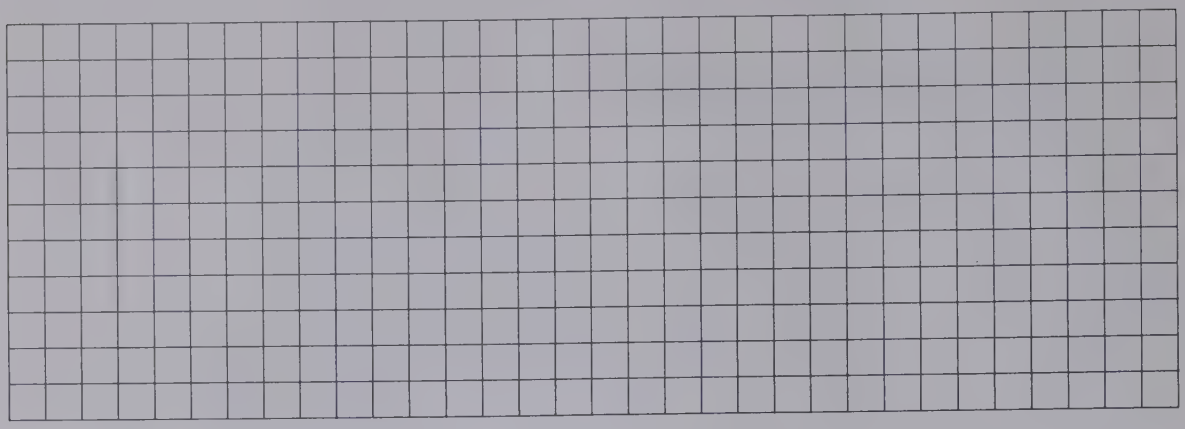
_____

13. _____

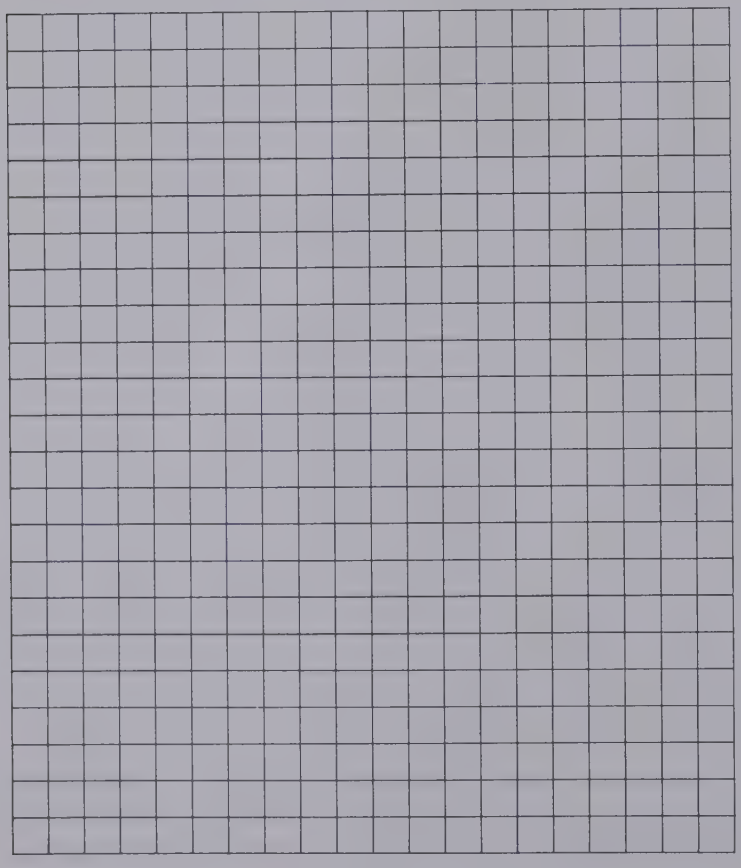
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GRAPH NO. 1

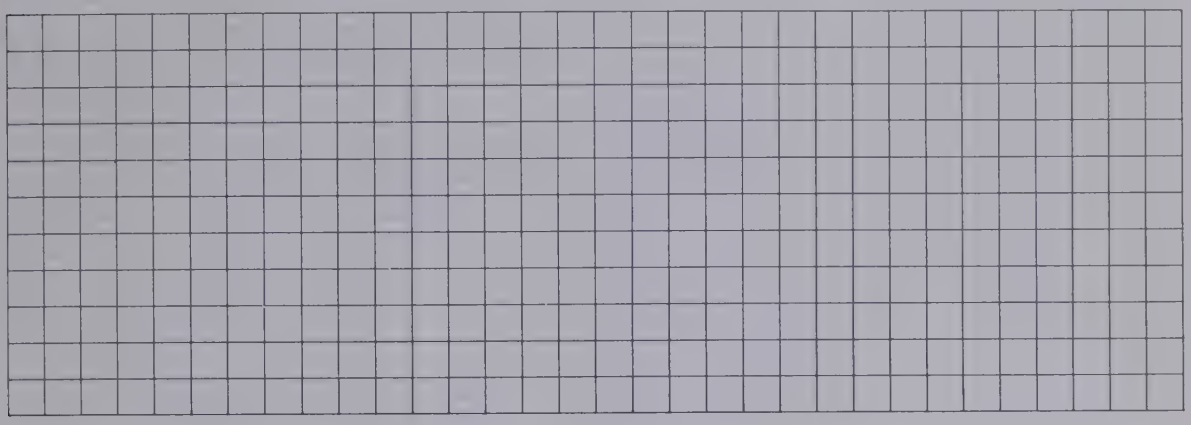


GRAPH NO. 2



Name Date Class

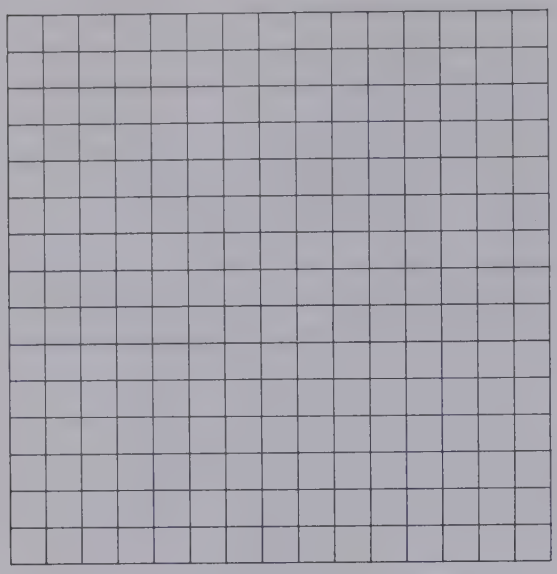
GRAPH NO. **3**



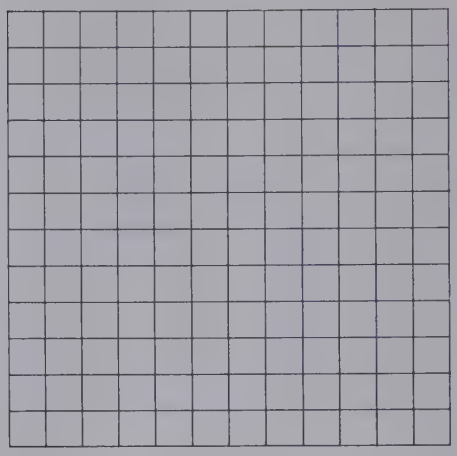
Space *a*

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GRAPH NO. **4**



GRAPH NO. **6**



Space *b*

CONCEPT SUMMARY:

Name _____

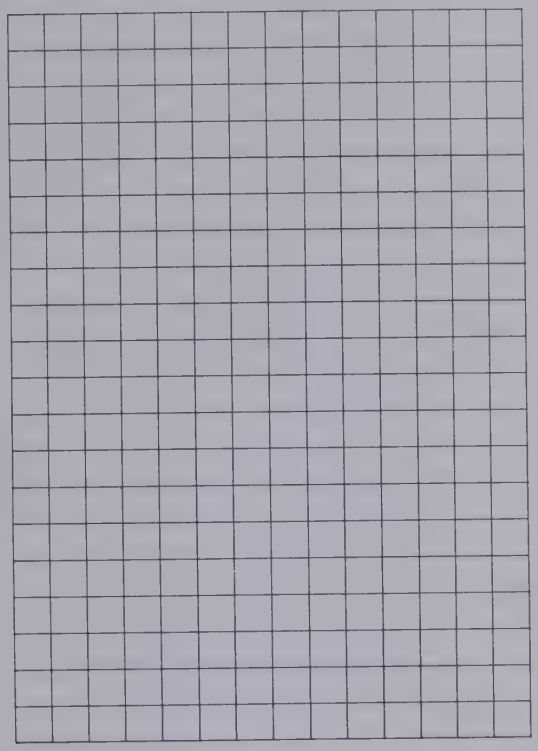
Date _____ Class _____

Data Sheet

A. WILL YOU LIVE PAST 70?

GRAPH NO. 1

_____



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

_____

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8. _____

9. _____

10. _____

B. CAN YOU PROVE IT?

11. _____

12. _____

13. _____

14. _____

15. _____

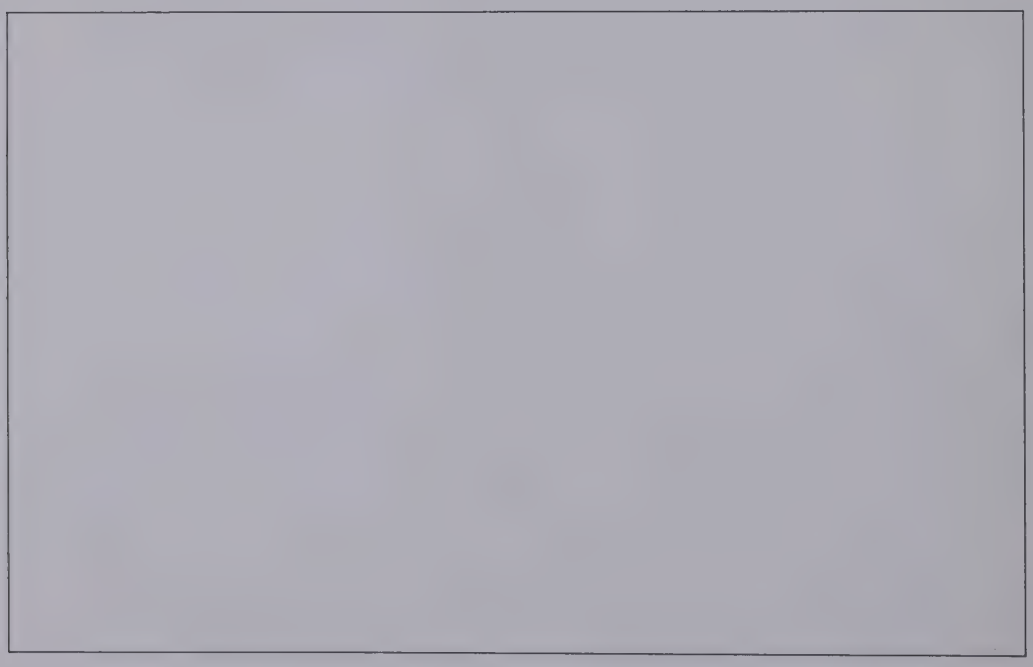
16. _____

17. _____

18. _____

C. GO SOAK YOUR SEEDS

Space *a*



Name Date Class

19. _____

_____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

_____

D. ARE YOU CAUTIOUS NOW?

27. _____

28. _____

_____

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

A. YOU'RE ON YOUR OWN

1. *Problem:*

_____

_____

2. *Prediction:*

_____

_____

3. *Materials used:*

_____

_____

_____

4. *Procedure:*

_____

_____

_____

_____

5. *Results:*

_____

_____

_____

_____

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6. *Conclusion:*

_____

_____

B. AN HONEST WAY OF THINGS

C. THINK IS RELEVANT

CONCEPT SUMMARY:

_____

_____

You have completed a series of 9 investigations. They all have one idea in common. State this in your IDEA Summary.

Name _____

Date _____ Class _____

Data Sheet

1. Koala Bear _____

2. Fir Tree _____

3. Lobster _____

4. Earthworm _____

5. Bat _____

6. Canary _____

7. Spider _____

8. Salmon _____

9. Paramecium _____

10. Rhinoceros _____

11. _____

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12. _____

13. _____

14. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

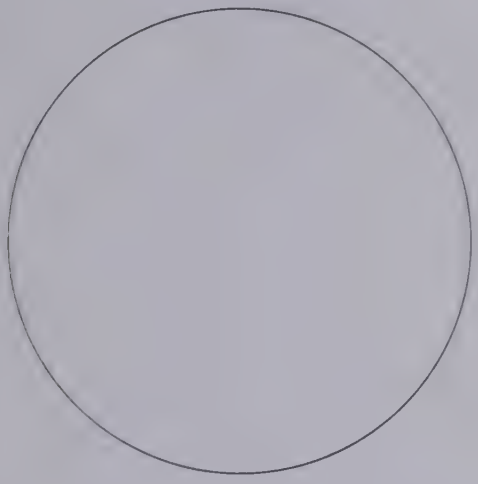
Name _____

Date _____ Class _____

Data Sheet

A. A BUG BETRAYER

Space *a*

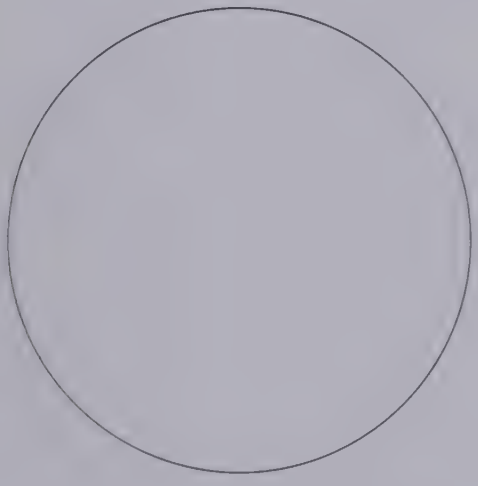


1. _____

_____

B. A WORM WANGLER

Space *b*



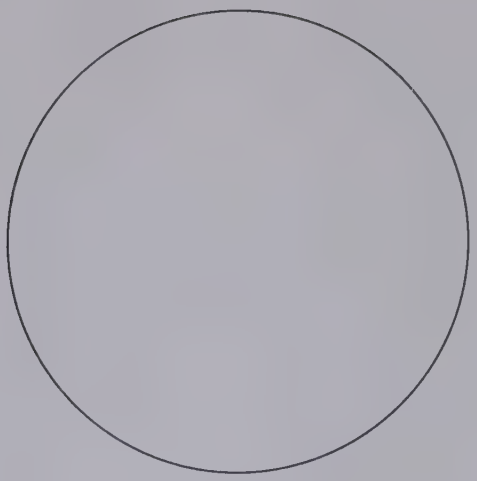
2. _____

_____

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C. WHAT IS A MICROBE?

Space *c*



3. _____

_____

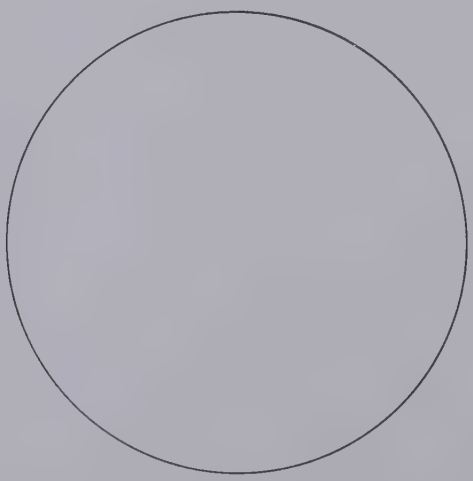
D. ARE MICROBES COLORLESS?

4. _____

_____

E. ARE MICROBES FUZZY?

Space *d*



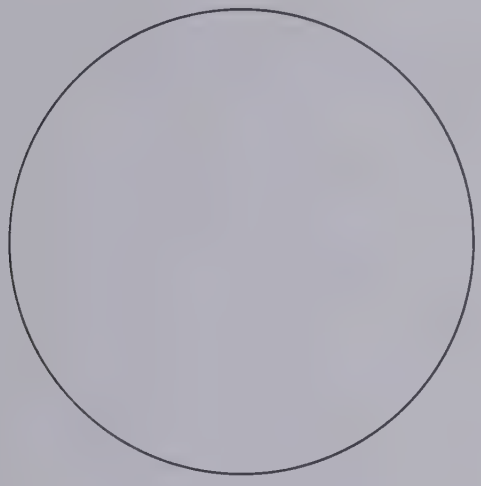
Name Date Class

5. _____

_____

F. ARE SOME MICROBES SHINY AND OTHERS DULL?

Space *e*



6. _____

_____

G. STILL WANT TO CALL IT DIRT?

7. _____

8. _____

9. _____

10. _____

_____

11. _____

_____

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12. _____

_____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name _____

Date _____ Class _____

Data Sheet

A. HISTORY OF THE MICROSCOPE

B. CARE AND PREPARATION OF THE MICROSCOPE

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

C. PREPARATION OF THE SAMPLE

7. _____

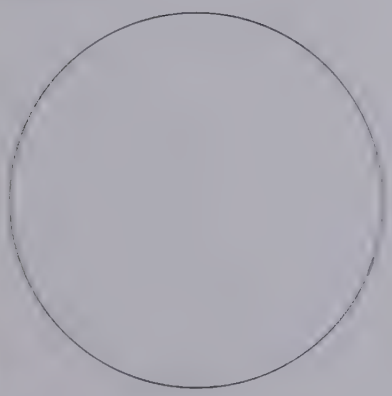
_____

8. _____

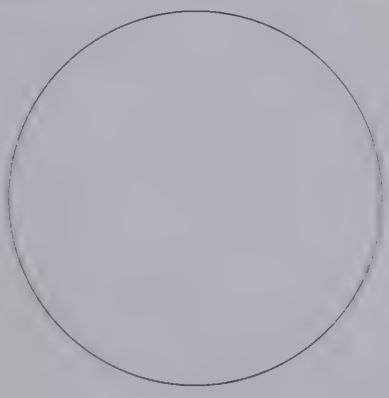
9. _____

D. ADJUSTING THE MICROSCOPE

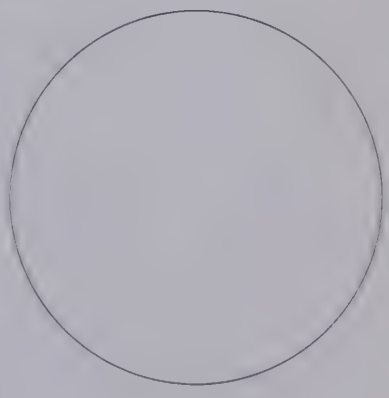
10. Space *a*



11. Space *b*



12. Space *c*



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E. OBSERVING WITH THE MICROSCOPE

13. _____

14. _____

15. _____

16. _____

17. _____

F. MEASUREMENTS USING THE MICROSCOPE

18. _____

19. a. _____

b. _____

CONCEPT SUMMARY: (Of what value is the microscope?)

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name

Date Class

Data Sheet

Space *a*



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1. _____

_____

2. _____

_____

3. _____

_____

CONCEPT SUMMARY:

_____

_____

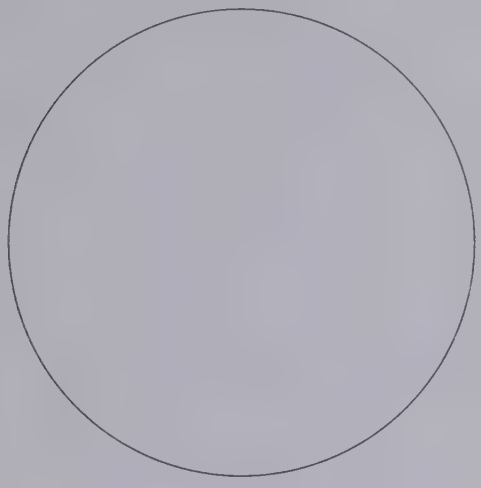
Name _____

Date _____ Class _____

Data Sheet

A. WHAT LOOKS LIKE A FOOTBALL?

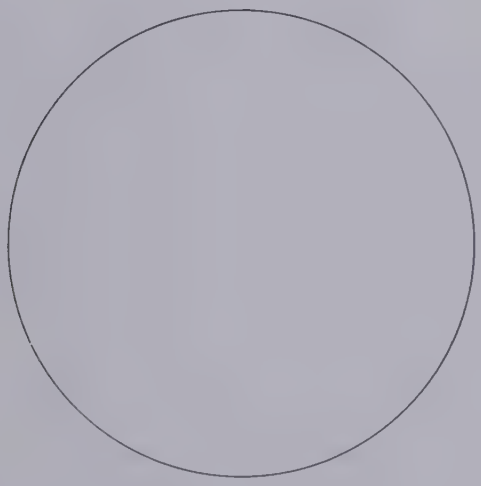
Space *a*



1. _____

B. WHAT ARE LITTLE PLANTS MADE OF?

Space *b*

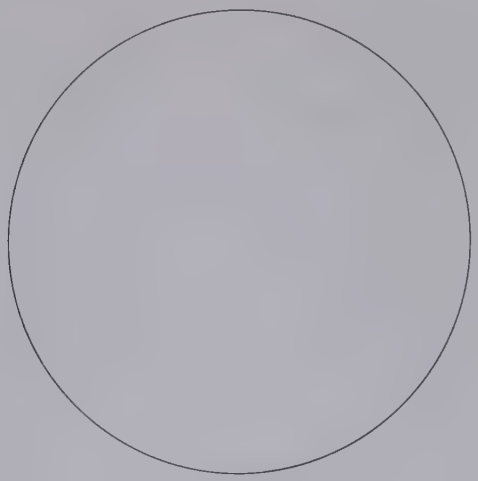


2. _____

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C. WHAT ARE LITTLE BOYS AND GIRLS MADE OF?

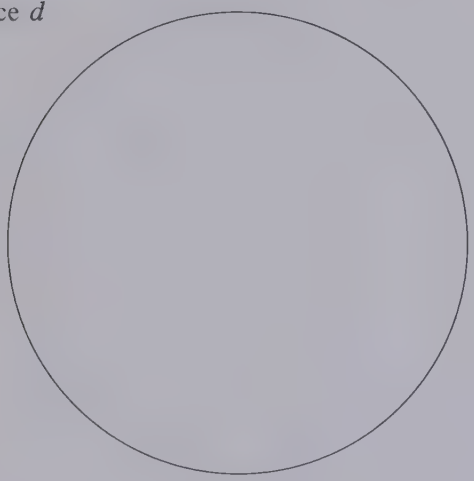
Space *c*



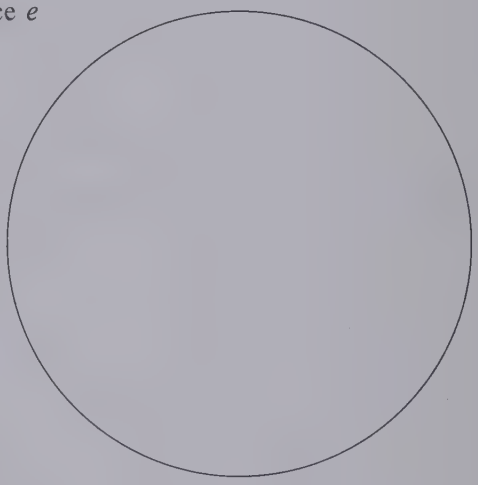
3. _____

D. WHAT ARE ALL LIVING THINGS MADE OF?

Space *d*



Space *e*



4. _____

5. _____

6. _____

CONCEPT SUMMARY:

_____

_____

Name

Date Class

Data Sheet

A. FORGET ABOUT THE JOKER

TABLE NO. 1
SEPARATION OF CARDS INTO RELATED GROUPS

Cards can be grouped according to:	Kinds of cards in each group

1. _____

B. CUTOUT, NOT CUTUP

TABLE NO. 2
SEPARATION OF CUTOUTS INTO RELATED GROUPS

Cutouts can be grouped according to:	Kinds of cutouts in each group

2. _____

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C. A CRAZY MIXED-UP ZOO

TABLE NO. 3
SEPARATION OF ANIMALS INTO RELATED GROUPS

Animals can be grouped according to:	Characteristics in each group

3. _____

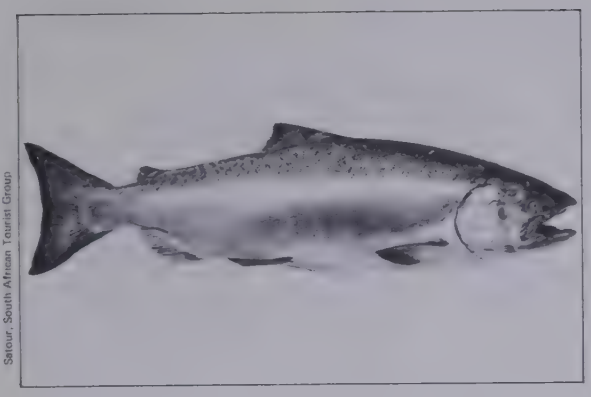
4. _____

CONCEPT SUMMARY:

_____

_____

SALMON



Appendages: Fins
External
Covering: Scales
Heart: 2 chambers
Respiratory
Mechanism: Gills
Teeth: In the jaw

SALMON

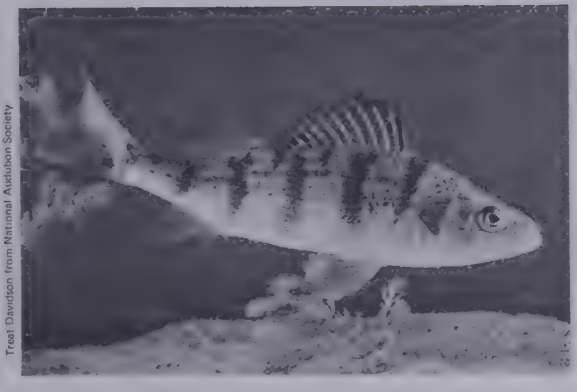
BETTA



Appendages: Fins
External
Covering: Scales
Heart: 2 chambers
Respiratory
Mechanism: Gills
Teeth: In the jaw

BETTA

PERCH



Appendages: Fins
External
Covering: Scales
Heart: 2 chambers
Respiratory
Mechanism: Gills
Teeth: In the jaw

PERCH

FROG



Appendages: Arms or Forelegs
Legs or Hindlegs
External
Covering: Skin
Heart: 3 chambers
Respiratory
Mechanism: Gills, Lungs
Teeth: Roof of mouth

FROG

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TOAD



Courtesy of the American Museum of Natural History

Appendages: Arms or Forelegs, Legs or Hindlegs

External Covering: Skin

Heart: 3 chambers

Respiratory Mechanism: Gills, Lungs

Teeth: Roof of mouth

TOAD

SALAMANDER



Courtesy of the American Museum of Natural History

Appendages: Arms or Forelegs, Legs or Hindlegs

External Covering: Skin

Heart: 3 chambers

Respiratory Mechanism: Gills, Lungs

Teeth: Roof of mouth

SALAMANDER

ALLIGATOR



Courtesy of the American Museum of Natural History

Appendages: Arms or Forelegs, Claws, Legs or Hindlegs

External Covering: Scales

Heart: 3 chambers

Respiratory Mechanism: Lungs

Teeth: In the jaw

ALLIGATOR

LIZARD



Grace A. Thompson from National Audubon Society

Appendages: Arms or Forelegs, Claws, Legs or Hindlegs

External Covering: Scales

Heart: 3 chambers

Respiratory Mechanism: Lungs

Teeth: In the jaw

LIZARD

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TURTLE



A. W. Ambler from National Audubon Society

Appendages: Arms or Forelegs, Claws, Legs or Hindlegs

External Covering: Scales

Heart: 3 chambers

Respiratory Mechanism: Lungs

Teeth: In the jaw

TURTLE

DUCK



Allan D. Cruickshank from National Audubon Society

Appendages: Wings, Legs or Hindlegs, Claws

External Covering: Scales, Feathers

Heart: 4 chambers

Respiratory Mechanism: Lungs

Teeth: Lacking

DUCK

CANARY



John H. Gerard from National Audubon Society

Appendages: Wings, Legs or Hindlegs, Claws

External Covering: Scales, Feathers

Heart: 4 chambers

Respiratory Mechanism: Lungs

Teeth: Lacking

CANARY

HAWK



Colorado Game, Fish & Parks Dept.

Appendages: Wings, Legs or Hindlegs, Claws

External Covering: Scales, Feathers

Heart: 4 chambers

Respiratory Mechanism: Lungs

Teeth: Lacking

HAWK

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DEER



Washington State Department of Game

Appendages: Arms or Forelegs, Legs or Hindlegs

External Covering: Hair, Fur

Heart: 4 chambers

Respiratory Mechanism: Lungs

Teeth: In the jaw

DEER

SEAL



Pro Pix from Monkmeyer Press Photo Service

Appendages: Arms or Forelegs, Legs or Hindlegs

External Covering: Hair, Fur

Heart: 4 chambers

Respiratory Mechanism: Lungs

Teeth: In the jaw

SEAL

MAN



United Nations

Appendages: Arms or Forelegs, Legs or Hindlegs

External Covering: Hair, Fur

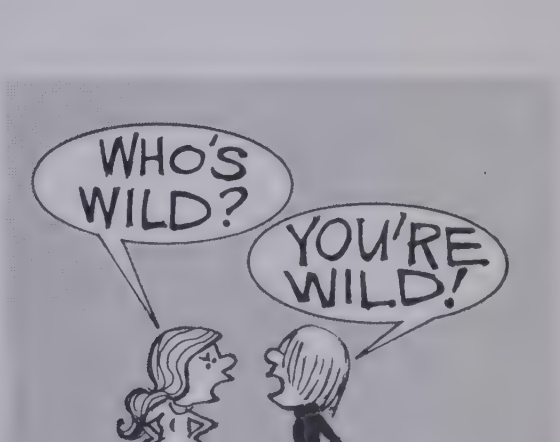
Heart: 4 chambers

Respiratory Mechanism: Lungs

Teeth: In the jaw

MAN

WILD



WILD

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Name _____

Date _____ Class _____

Data Sheet

A. IS THERE A WEBSTER IN SCIENCE?

1. _____

_____

2. _____

_____

3. _____

B. WHO'S RELATED TO WHOM?

4. _____

_____

5. _____

6. _____

7. _____

_____

8. _____

9. _____

10. _____

_____

11. _____

12. _____

13. _____

_____

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14. _____

15. _____

16. _____

_____

17. _____

18. _____

C. WE'RE ALL IN PLACE

19. _____

20. _____

21. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. A DINOSAUR IN MY TANK?

1. _____

2. _____

B. IT'S PRESERVED IN ROCK

3. _____

4. _____

C. THE RECORD OF LIFE

5. _____

6. _____

7. _____

CONCEPT SUMMARY:

_____

_____

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Name _____

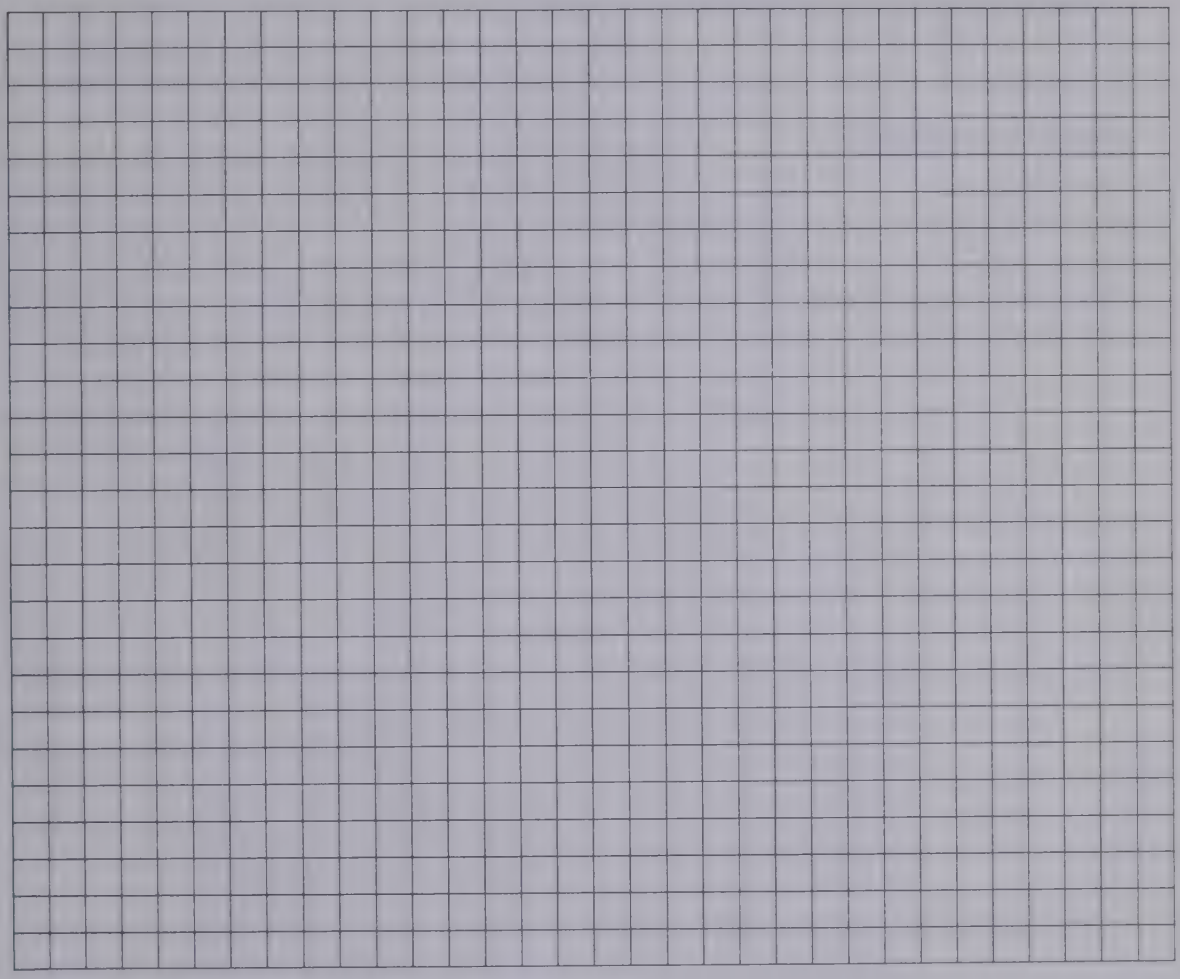
Date _____ Class _____

Data Sheet

A. LOOK MA, NO CAVITIES

GRAPH NO. 1

_____



1. _____

2. _____

_____

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B. THEY'RE OFF AND RUNNING

3. _____

4. _____

5. _____

6. _____

C. NO ORDINARY SET OF BONES

7. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

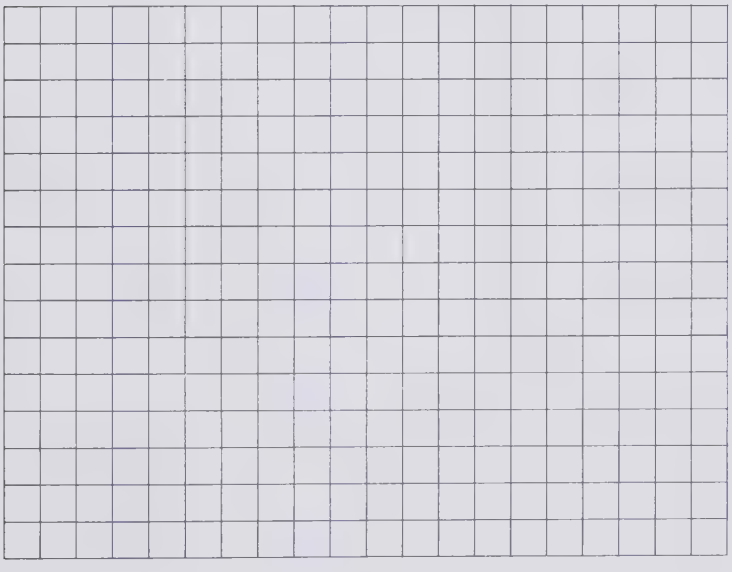
Data Sheet

A. THEY COME IN PODS, NOT BOXES OR CANS

TABLE NO. 1
COMPARISON OF PEA SIZES, mm

Diameter of Peas, mm										
Personal Count										
Total Class Count										

GRAPH NO. 1
TOTAL CLASS COUNT OF PEA DIAMETERS, mm



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B. YOU HAVE TO RAKE THEM ALL FALL

TABLE NO. 2
COMPARISON OF LEAF LENGTHS, mm

Length of Leaves, mm																								
Personal Count																								
Total Class Count																								

GRAPH NO. 2
TOTAL CLASS COUNT OF LEAF LENGTHS, mm

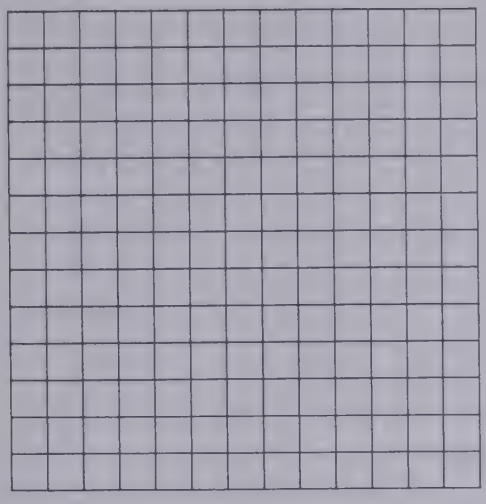
C. HOW FAST ARE YOU?

TABLE NO. 3
COMPARISON OF STUDENT REACTION DISTANCE, INCHES

Reaction Distance, Inches												
Personal Reaction Count												
Total Class Count												

Name Date Class

GRAPH NO. 3
TOTAL CLASS COUNT OF
STUDENT REACTION DISTANCES

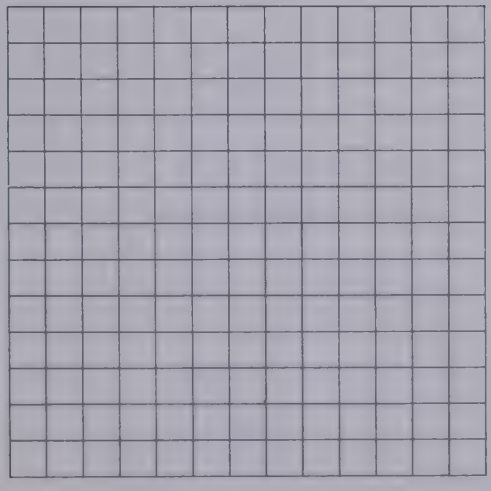


D. DON'T GRADE ON THE CURVE

TABLE NO. 4
DISTRIBUTION OF BALLS IN A PROBABILITY DEVICE

Column									
Number of Balls									

GRAPH NO. 4
DISTRIBUTION OF BALLS IN A
PROBABILITY DEVICE



E. ARE THEY ALL ALIKE?

1. _____

2. _____

3. _____

_____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

_____

12. _____

13. _____

14. _____

15. _____

16. _____

CONCEPT SUMMARY:

_____

_____

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Name

Date Class

Data Sheet

A. WHAT, MORE CUTOUTS?

TABLE NO. 1
DISTRIBUTION OF DIFFERENT COLORED OBJECTS

Colored Objects Selected	Black 1	2	3	4	5	6	7	8	White 9
Personal Count									
Total Class Count									

1. _____

2. _____

3. _____

4. _____

B. WHAT, EVEN MORE CUTOUTS?

TABLE NO. 2
DISTRIBUTION OF DIFFERENT SIZED OBJECTS

Size of Objects Selected	Small								Large
Personal Count									
Total Class Count									

5. _____

6. _____

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7. _____

8. _____

C. THE MOTHS OF MANCHESTER FOREST

9. _____

10. _____

_____

11. _____

12. _____

13. _____

_____

14. _____

15. _____

16. _____

D. AND NOW, DOWN TO TRACKSIDE

17. _____

18. _____

19. _____

20. _____

21. _____

_____

22. _____

23. _____

24. _____

25. _____

26. _____

_____

E. WHO SURVIVES?

27. _____

28. _____

29. _____

_____

30. _____

_____

31. _____

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

A. DO CHINESE GET SUNTANNED?

1. _____

_____

B. THE RIGHT COLOR FOR SURVIVAL

2. _____

3. _____

_____

4. _____

_____

5. _____

6. _____

7. _____

_____

8. _____

_____

9. _____

10. _____

11. _____

_____

12. _____

_____

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13. _____

_____

CONCEPT SUMMARY:

_____

_____

You have completed a series of 12 investigations. They all have one idea in common. State this idea in your IDEA Summary.

Name _____

Date _____ Class _____

Data Sheet

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

_____

TABLE NO. 1

OBSERVATIONS OF BEEF SOUP KEPT UNDER DIFFERENT CONDITIONS

Test Tube	Observations, by Dates				
1. Sterilized, Left Open					
2. Sterilized, Sealed					
3. Sterilized, Straight Tube					
4. Sterilized, S-Shaped Tube					

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8. _____

9. _____

10. _____

_____

11. _____

12. _____

_____

13. _____

14. _____

_____

15. _____

16. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name

Date Class

Data Sheet

1. _____

2. _____

3. _____

TABLE NO. 1

THE INCREASE OF A PENNY THAT IS DOUBLED DAILY

DAY	Amount	DAY	Amount	DAY	Amount
1	.01 x2	12		23	
2	.02 x2	13		24	
3	.04	14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21		32	
11		22		33	

A. TWO NEW PETALUMAS EVERY HOUR?

B. MOVE OVER. IT'S CROWDED IN HERE

4. _____

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TABLE NO. **2**

OBSERVATIONS OF BEEF SOUP

Dates	Observations

5. _____

6. _____

_____

7. _____

_____

C. THE POPULATION BOMB

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name _____

Date _____ Class _____

Data Sheet

1. _____

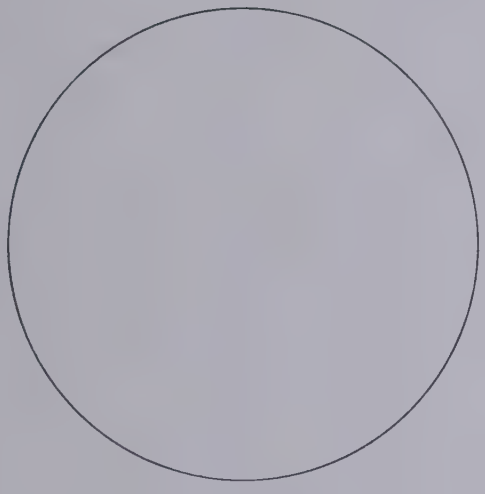
A. I'M BORED, LET'S SPLIT

2. _____

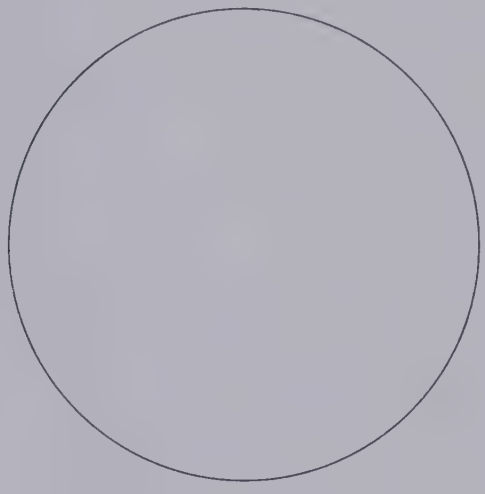
3. _____

B. MOVE OVER, BUD

Space *a*



Space *b*



4. _____

5. _____

6. _____

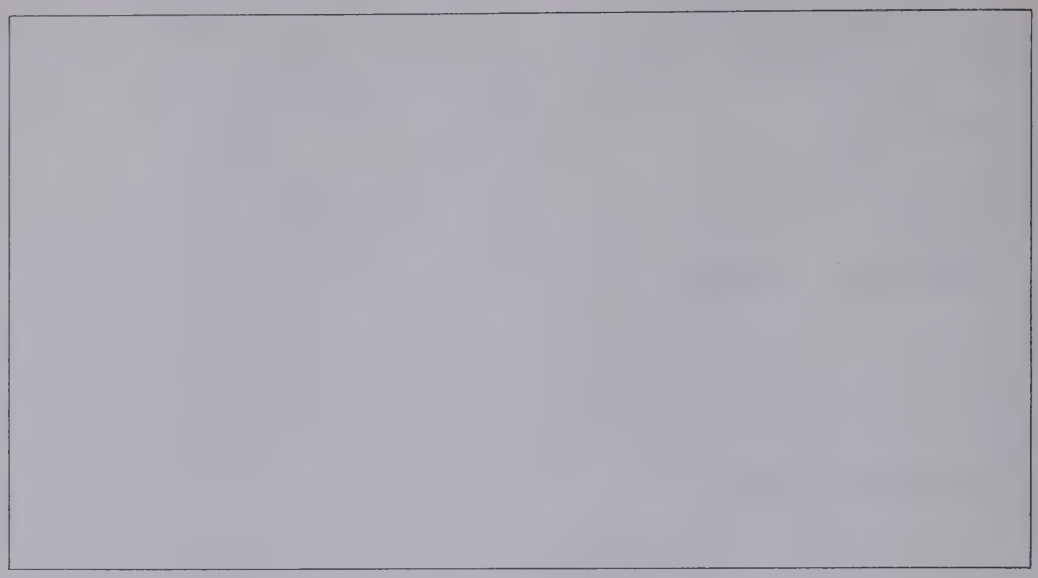
7. _____

C. DO YOU HAVE DIVIDING PAINS?

8. _____

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Space *c*



9. _____

10. _____

11. _____

_____

12. _____

13. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name

Date Class

Data Sheet

A. WHERE DO SEEDS COME FROM?

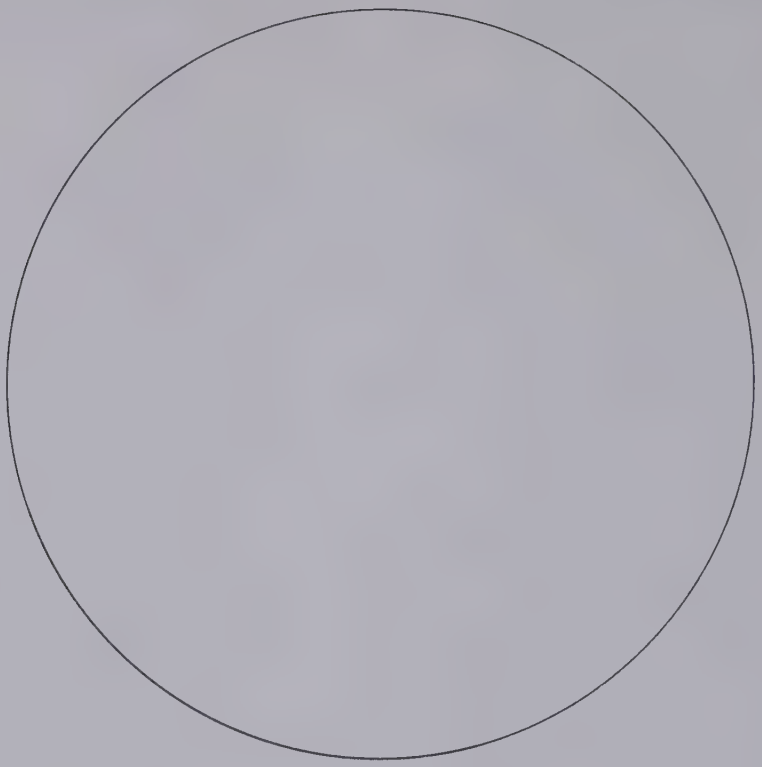
Space *a*

Space *b*

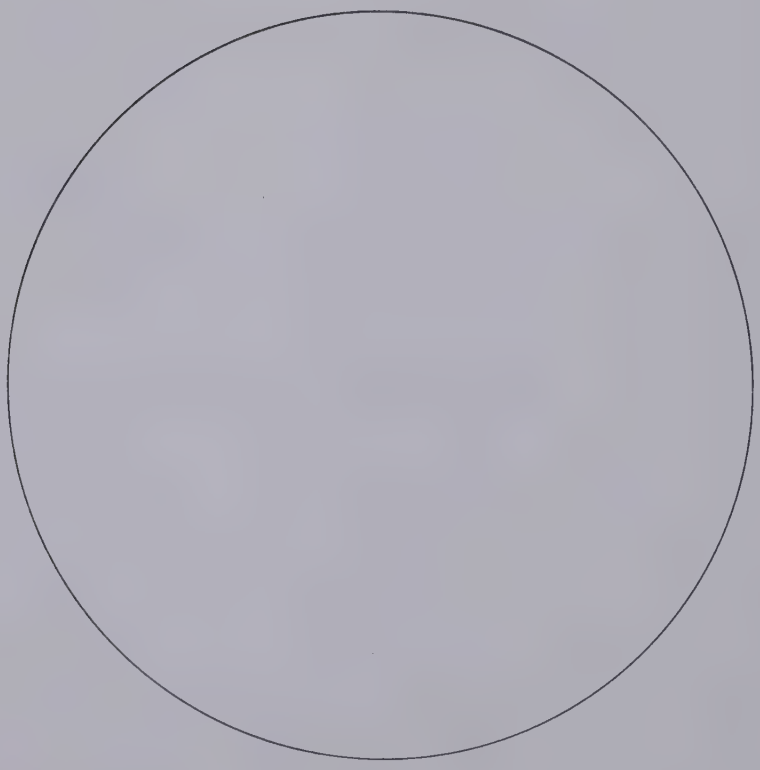
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B. ARE ALL APPLES FEMALES?

Space *c*



Space *d*



Name Date Class

1. _____

_____

2. _____

_____

3. _____

4. _____

5. _____

_____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

C. AND THEN THERE IS THE STORK?

13. _____

14. _____

CONCEPT SUMMARY:

_____

_____

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Name

Date Class

Data Sheet

A. LISTEN TO MY CAR KNOCK

B. LET'S TAKE A BEAN POLL

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

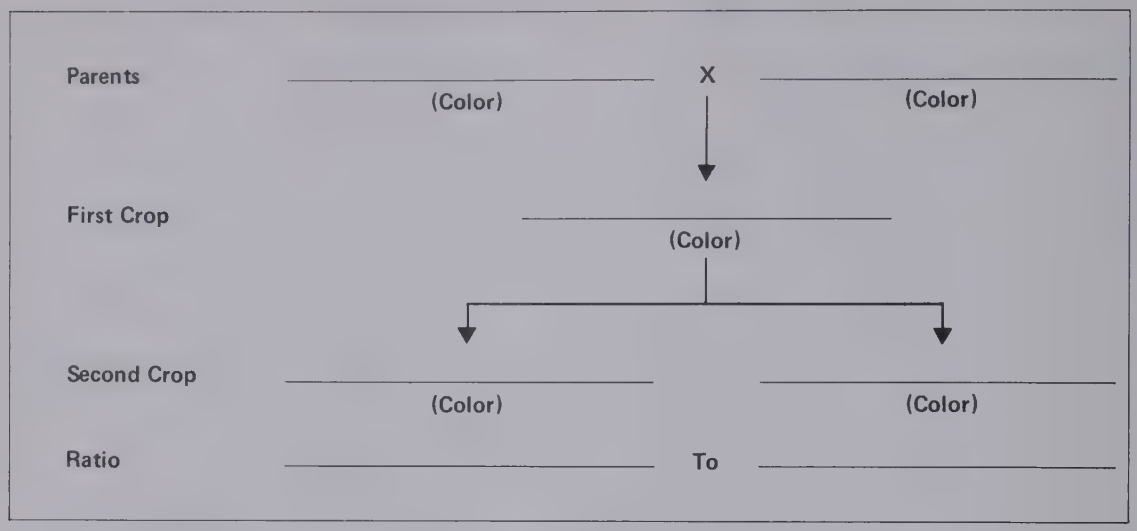
TABLE NO. 1 SAMPLE COUNT OF BEANS FROM A SECOND CROP

Counts	Greater Number Color:	Lesser Number Color:	Ratio
Your Total			
Classmates Total			
Classmates Total			
Classmates Total			
Grand Total			

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13. _____

DIAGRAM NO. 1



C. TO REVIEW YOUR BEAN POLL

14. _____

15. _____

16. _____

_____

17. _____

_____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

1. _____

2. _____

3. _____

A. AREN'T ALL PEAS GREEN?

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

B. AREN'T ALL PEAS ROUND?

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

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20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

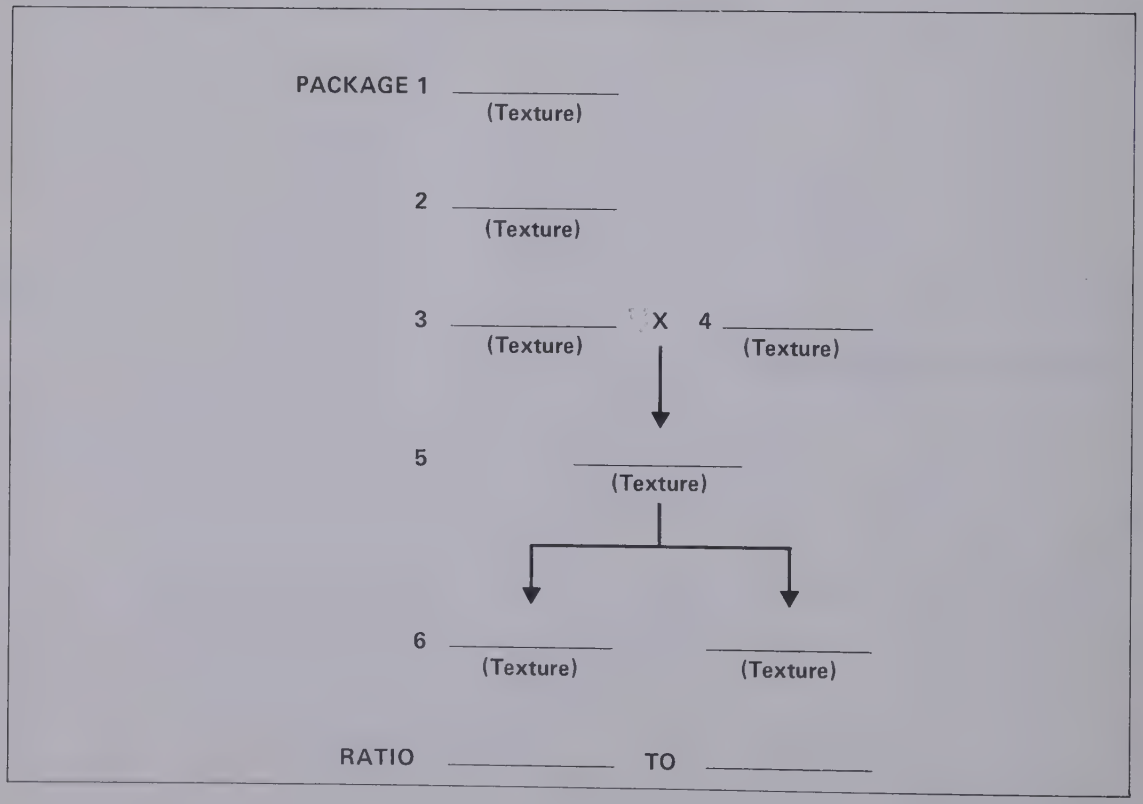
27. _____

28. _____

29. _____

C. AND NOW, BACK TO THE PEA PATCH

DIAGRAM NO. 1



Name Date Class

30. _____

31. _____

32. _____

33. _____

_____

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

TABLE NO. 1

COUNT OF TOBACCO SEEDLING COLORS KEPT UNDER DIFFERENT CONDITIONS

Day	Dish Number	Condition	Number of Each Color		Ratio
1	1	Light			
	2	Dark			
	3	Dark			
2	1	Light			
	2	Dark			
	3	Dark			
3	1	Light			
	2	Dark			
	3	Light			
4	1	Light			
	2	Dark			
	3	Light			
5	1	Light			
	2	Dark			
	3	Light			

1. _____

2. _____

3. _____

4. _____

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5. _____

6. _____

_____

7. _____

8. _____

_____

9. _____

_____

10. _____

11. _____

12. _____

13. _____

_____

14. _____

A. HAVEN'T WE MET BEFORE?

15. _____

16. _____

17. _____

18. _____

19. _____

Name Date Class

TABLE NO. 2

COMPARISON OF THREE PLANT FAMILIES

Generation	Bean Family	Pea Family	Tobacco Family
Parents			
First Generation			
Second Generation			
Ratio			

20. _____

21. _____

22. _____

23. _____

24. _____

_____

25. _____

B. CAN YOU BREAK A PATTERN?

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

A. A "BIT OF INFORMATION"

1. _____

2. _____

3. _____

TABLE NO. 1
RESULTS OF A PURE BROWN-WHITE CROSS

Trial	Combination of Chips	Overall color
1		
2		
3		
4		
5		

4. _____

5. _____

_____

6. _____

B. WHERE HAVE I SEEN YOU BEFORE?

7. _____

8. _____

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TABLE NO. 2

RESULTS OF A FIRST GENERATION BROWN-BROWN CROSS

	Possible Color Chip Combinations		
	Brown-Brown	Brown-Clear	Clear-Clear
Tally Marks			
Your Total			
Classmates Total			
Classmates Total			
Classmates Total			
Grand Total			
OVERALL Color			
Ratio			

9. _____

10. _____

C. IS THIS THE MODEL?

11. _____

12. _____

13. _____

14. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. WHAT'S MY MODEL LIKE?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

B. BACK TO THE BEANS

9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____

_____

17. _____

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18. _____

_____

19. _____

20. _____

C. BACK TO THE PEAS, TOO

21. Package 3 _____ Package 4 _____

22. Package 3 _____ Package 4 _____

23. _____

_____

24. _____

25. _____

26. _____

D. BACK TO THE TOBACCO PLANTATION

27. _____

28. _____

29. _____

30. _____

_____

31. Original Parent _____ Other Original Parent _____

32. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. WHY DOES IT WORK?

TABLE NO. 1
RESULTS OF FLIPPING TWO COINS

Counts	Possible Combinations		
Tally			
Total			
Ratio			

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

B. DOES IT WORK WITH PEOPLE, TOO?

8. _____

_____

9. _____

_____

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10. _____

_____

11. _____

12. _____

_____

13. _____

_____

14. _____

_____

C. UGH, IT TASTES AWFUL

15. _____

16. _____

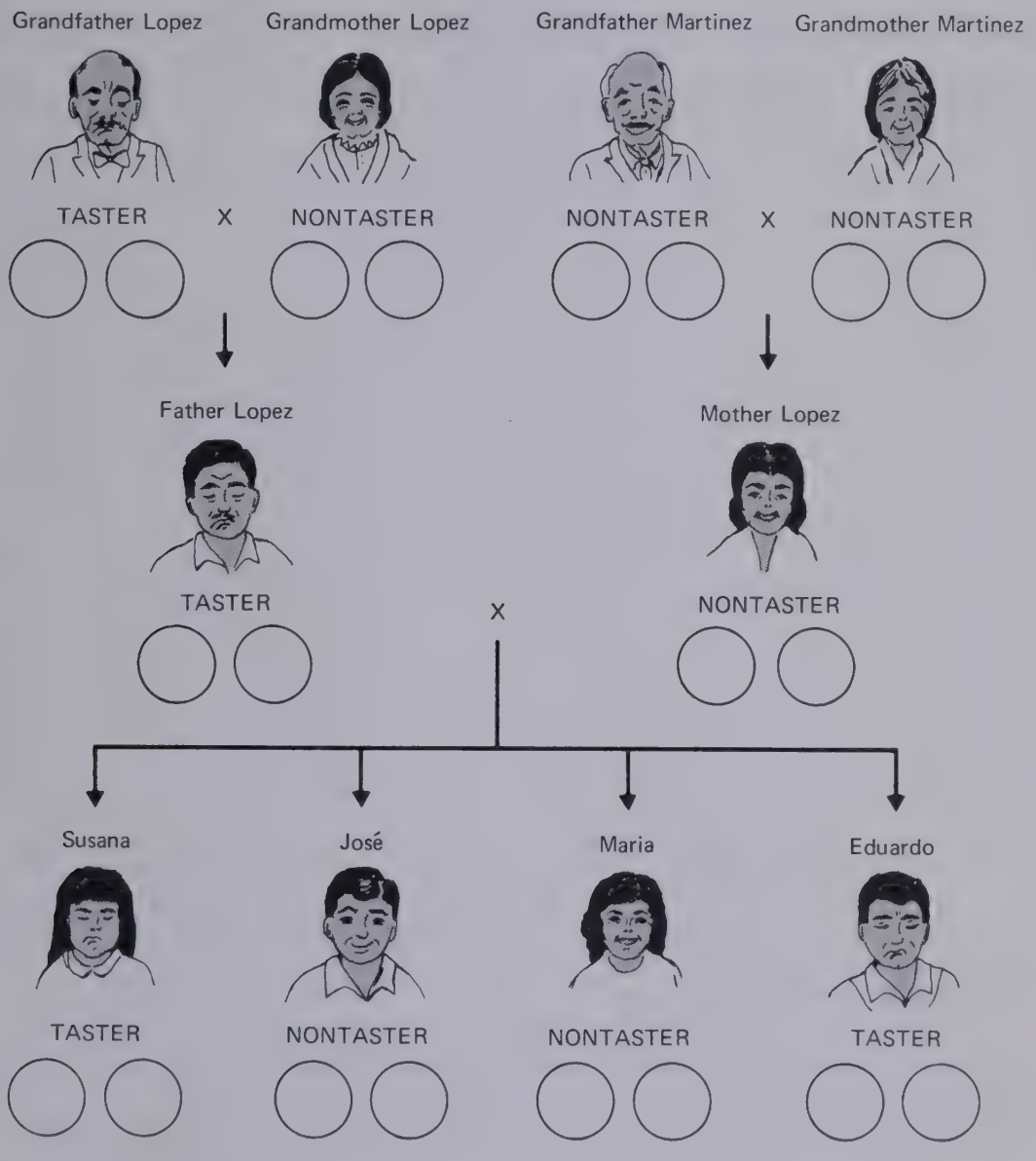
17. _____

18. _____

Name Date Class

D. ¡ EL SAVOR ES HORRIBLE!

DIAGRAM NO. 1



19. _____

20. _____

21. _____

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22. _____

_____

_____

23. _____

_____

24. _____

25. _____

26. _____

27. _____

28. _____

29. _____

30. _____

31. _____

_____

32. _____

_____

33. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. WHAT DOES A WRINKLED PEA TASTE LIKE?

1. _____
2. _____
3. _____
_____
4. _____
5. _____
6. _____
_____
_____
7. _____
_____
8. _____
9. _____

B. THEY CALL ME A "GENE"

10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

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CONCEPT SUMMARY:

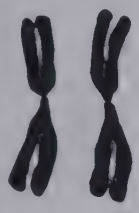
Name

Date Class

Data Sheet

A. TWENTY-THREE, FORTY-SIX, HIKE!

CHART NO. 1

1 	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23 X Y 	

1. _____

2. _____

3. _____

B. ONE TOO MANY

4. _____

5. _____

_____

6. _____

_____

C. IT HURTS OTHERS, TOO

7. _____

8. _____

9. _____

10. _____

D. A SOCIAL PROBLEM

CONCEPT SUMMARY:

_____

_____

You have completed a series of 12 investigations. They all have one idea in common. State this idea in your Idea Summary.

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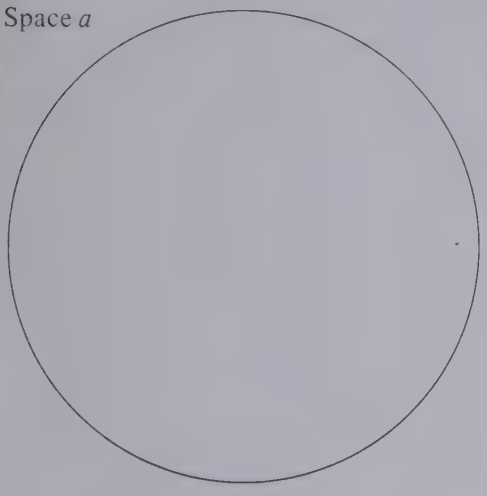
Name _____

Date _____ Class _____

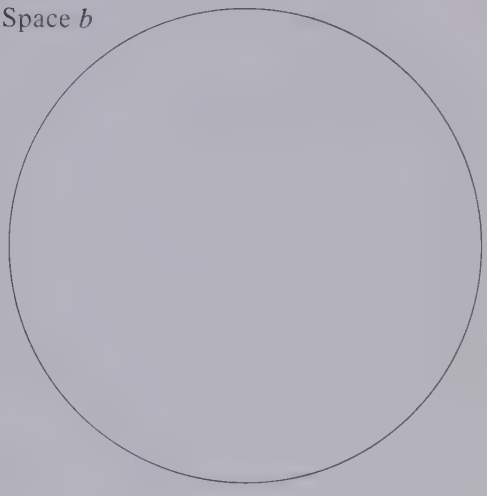
Data Sheet

A. UP, UP, AND AWAY

Space *a*



Space *b*



1. _____

2. _____

3. _____

B. A REAL WILD BEAT

TABLE NO. 1
THE PULSE RATE UNDER THREE DIFFERENT CONDITIONS

Condition	Pulse Rate Per Minute			
	1	2	3	Average
At Rest				
Exercise				
Breathing Deeply				

4. _____

5. _____

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6. _____

7. _____

8. _____

_____

C. WANT TO CRAWL?

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

_____

15. _____

_____

D. YES, I'M WITH IT

16. _____

17. _____

18. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary)

Name _____

Date _____ Class _____

Data Sheet

A. THE EIGHTY-YEAR-OLD WONDER

B. A FLEA FOR ME

(See Table No. 1, D100)

(See Table No. 2, D101)

1. _____

2. _____

3. _____

4. _____

5. _____

C. SEVENTY THOUSAND MILES OF TUBING

D. A FISHY TALE

(See Table No. 3, D102)

(See Table No. 4, D102)

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

_____

12. _____

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E. THEY EACH DO THEIR THING

13. _____

14. _____

15. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

TABLE NO. 1
HEARTBEAT RATE OF DAPHNIA UNDER VARIOUS CHEMICAL CONDITIONS

Chemical	Heart Beats Per Minute			
	1	2	3	Average
Control				
Control				
Control				

Name Date Class

TABLE NO. 2
CLASS DATA OF DAPHNIA HEARTBEAT RATES

Average Heartbeat Rates Per Minute Under Various Conditions		
Control	Chemical:	Chemical:
Average:	Average:	Average:

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TABLE NO. 3
CAPILLARY FLOW IN A GOLDFISH'S TAIL

Chemical	Observation

TABLE NO. 4
CLASS DATA OF GOLDFISH CAPILLARY FLOW

Chemical	Observation

Name

Date Class

Data Sheet

A. LET IT ALL "PORE" OUT

TABLE NO. **1**
SWEAT GLAND COUNT IN VARIOUS AREAS OF THE BODY, HEATED AND UNHEATED

Area of Body	Number of Sweat Glands Per Square cm

1. _____

2. _____

3. _____

4. _____

5. _____

B. WELL, BEND MY KNEE

TABLE NO. **2**
SWEAT GLAND COUNT IN VARIOUS AREAS OF THE BODY AFTER EXERCISE

Area of Body	Number of Sweat Glands Per Square cm

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6. _____

_____

7. _____

8. _____

9. _____

10. _____

_____

C. NOW TAKE A SHOWER

11. _____

12. _____

13. _____

D. IF HE TURNS BLUE, STOP (optional)

TABLE NO. 3
EFFECT OF ICE WATER ON ORAL AND SKIN TEMPERATURE

Treatment	Temperature, °F	
	Oral	Skin
Before Immersion		
After Immersion		
Before Immersion		
After Immersion		

14. _____

15. _____

16. _____

17. _____

Name Date Class

E. YOU'RE ALWAYS WARM-BLOODED

18. _____

19. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

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Name _____

Date _____ Class _____

Data Sheet

A. A REAL GASSY AFFAIR

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

B. MAN CANNOT LIVE ON BREAD ALONE

TABLE NO. 1

THE CHANGE IN A PERSON'S PULSE RATE, BREATHING RATE, AND BREATH, BEFORE AND AFTER EXERCISING

Student	Condition	Pulse Rate, Per Minute	Breathing Rate, Per Minute	Time to Decolorize Basic Solution, Seconds		
				1	2	Average
1	Rest					
	After Exercise					
2	Rest					
	After Exercise					

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10. _____

11. _____

_____

12. _____

13. _____

_____

14. _____

15. _____

16. _____

C. NO MAN IS AN ISLAND

17. _____

18. _____

19. _____

20. _____

21. _____

_____

22. _____

_____

23. _____

24. _____

CONCEPT SUMMARY:

_____

_____

Name

Date Class

Data Sheet

A. THE BREATH OF LIFE

TABLE NO. 1

Normal Condition	Trial			
	1	2	3	Average
Pulse Rate, Per Minute				
Breathing Rate, Per Minute				

TABLE NO. 2

Exercise	Time, 2-minute Intervals						
	0	2	4	6	8	10	12
Pulse Rate, Per Minute							
Breathing Rate, Per Minute							

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TABLE NO. **3**

Exercise Length of Time to Return to Normal, Minutes			
Smoker		Nonsmoker	
Pulse	Breathing	Pulse	Breathing
Total			
Average			

1. _____

_____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

_____

10. _____

11. _____

12. _____

_____

B. JUST TOO MUCH TO ADJUST

C. DON'T RIDE THE BRAKES

13. _____

_____

14. _____

_____

15. _____

_____

16. _____

_____

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

A. ARE CRACKERS SWEET?

TABLE NO. 1
TESTING STARCH AND SALIVA FOR THE PRESENCE OF STARCH AND SUGAR

Substance Tested	Presence of	
	Starch	Sugar
Starch (with iodine)		
Starch (with Benedict's)		
Saliva (with Benedict's)		

1. _____

2. _____

3. _____

4. _____

_____

5. _____

6. _____

7. _____

_____

8. _____

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B. HOW SWEET IT IS

TABLE NO. **2**

THE EFFECT OF DIFFERENT CONCENTRATION OF ENZYMES ON THE DIGESTION OF STARCH

Condition of Tube	Presence of Sugar
(1) Starch	
(2) Starch, 5 ml Saliva	
(3) Starch, 2 ml Saliva 3 ml Water	
(4) Starch, 0.5 ml Saliva 4.5 ml Water	

9. _____

10. _____

11. _____

_____

12. _____

_____

13. _____

Name Date Class

TABLE NO. **3**
THE EFFECT OF DIFFERENT TEMPERATURES
ON THE DIGESTIVE ACTION OF ENZYMES ON STARCH

Condition of Tube	Presence of Sugar
(1) Starch and Saliva in Ice	
(2) Starch and Saliva in Hot Water	
(3) Starch and Saliva at Room Temperature	
(4) Starch at Room Temperature	

14. _____

15. _____

16. _____

_____

17. _____

18. _____

C. WORKING TOGETHER ISN'T ENOUGH

19. _____

20. _____

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

A. HARD-BOILED EGGS AND STRAWS

TABLE NO. 1
OBSERVATIONS ON THE PASSAGE OF DIFFERENT SUBSTANCES THROUGH A MEMBRANE

Contents of Straw	Observation

1. _____

2. _____

3. _____

4. _____

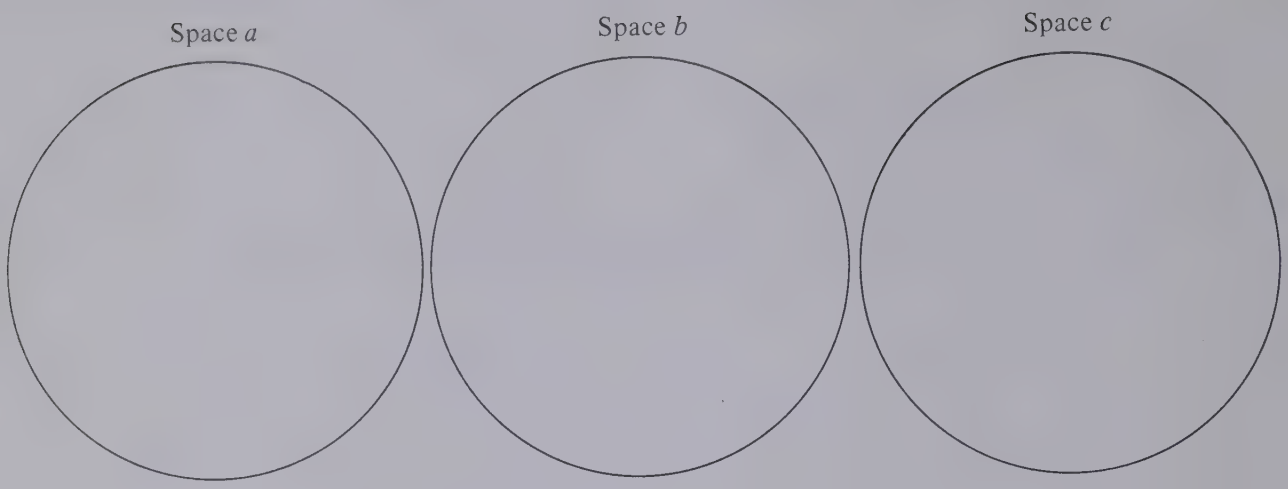
_____

5. _____

6. _____

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B. HARD-BOILED YEAST AND DYE



7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

C. THE SEA WITHIN US

13. _____

14. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. THERE'S A DIFFERENCE IN SIZE

1. _____

_____

TABLE NO. 1

THE EFFECT OF A PLANT HORMONE ON THE LENGTH OF PEA AND OAT ROOTS

Seeds	Length of Roots Under Two Different Treatments, mm											
	Water						Hormone					
	1	2	3	4	5	Ave.	1	2	3	4	5	Ave.
Peas												
Oats												

2. _____

_____

3. _____

B. SOMETHING TO CROW ABOUT

4. _____

_____

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5. _____

TABLE NO. **2**

THE SIZE OF THE COMB ON TWO ONE-DAY OLD COCKERELS, ONE TREATED AND ONE UNTREATED WITH TESTOSTERONE

Day	Treated			Untreated		
	Height, mm	Length, mm	Height X Length mm	Height, mm	Length, mm	Height X Length mm
1						
2						
3						
4						
5						

6. _____

_____

7. _____

_____

C. JUST THE RIGHT AMOUNT

8. _____

9. _____

10. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. A REAL BAD TRIP

1. *Arguments For*	*Comments*

2. *Arguments Against*	*Comments*

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B. NOT THE END, BUT A REAL BEGINNING

3. _____

4. _____

5. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. A BURNING SENSATION

TABLE NO. 1

Substance Burned	Amount of Water, ml	(d) Initial Temp. of Water, °C	(f) Final Temp. of Water, °C	(h) Difference in Temp., °C (f) – (d)	(a) Weight of Unburned Substance, g	(g) Weight of Burned Substance, g	(i) Difference in Weight, g (a) – (g)	(j) Candle Calories, (h) ÷ (i)

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B. A NUTTY HAPPENING

1. _____

2. _____

3. _____

C. STOP EATING YOURSELF TO DEATH

4. _____

5. _____

6. _____

_____

7. _____

8. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

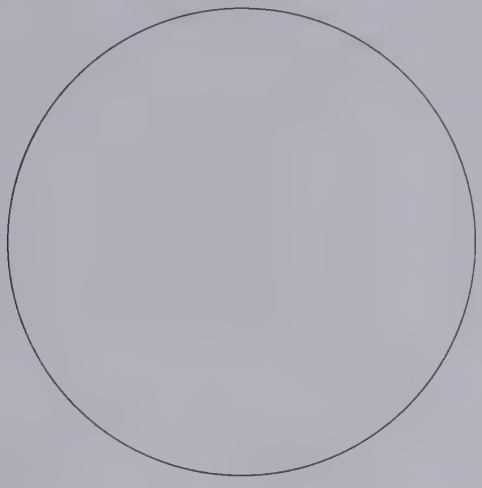
Name _____

Date _____ Class _____

Data Sheet

A. DO LEAVES HAVE HOLES?

Space *a*



1. _____

B. THE JOLLY GREEN BEAN

TABLE NO. 1

THE PRESENCE OF STARCH IN BEAN PLANTS KEPT UNDER VARIOUS CONDITIONS

Treatment	Evidence of Starch

C. THE NOT-SO-JOLLY GREEN BEAN

2. _____

D. WHO'S JOLLY NOW?

3. _____

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E. LET'S HEAR THE WHOLE STORY NOW?

4. _____

5. _____

6. _____

_____

7. _____

8. _____

9. _____

_____

10. _____

11. _____

12. _____

13. _____

14. _____

_____

15. _____

16. _____

_____

17. _____

18. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

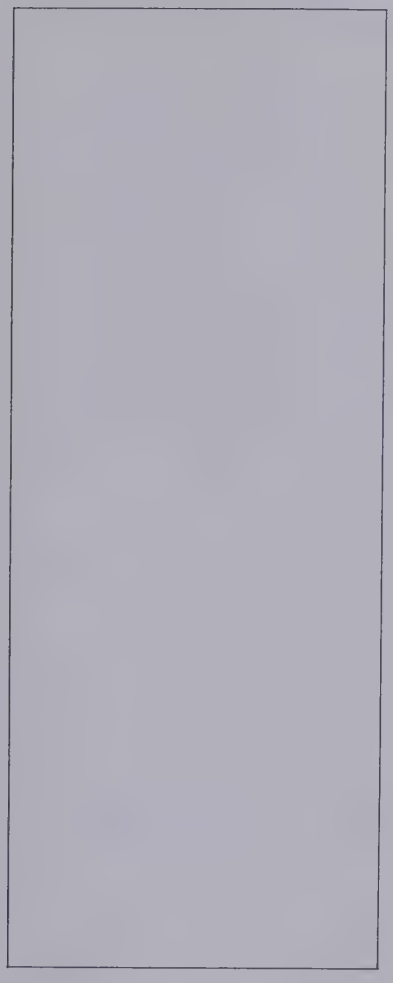
Name _____

Date _____ Class _____

Data Sheet

A. GREEN POWER

Space *a*



B. SHREDDED LEAVES, ANYONE?

1. _____

2. _____

3. _____

_____

4. _____

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5. _____

6. _____

7. _____

C. THE JOLLY GREEN EUGLENA

8. _____

9. _____

10. _____

_____

11. _____

12. _____

13. _____

CONCEPT SUMMARY:

_____

_____

(Always record the concept summary in the IDEA Summary.)

Name _____

Date _____ Class _____

Data Sheet

A. THIS MODEL COMES IN GREEN

1. _____

_____

2. _____

TABLE NO. 1

THE PRODUCTION OF GAS BY *ELODEA*, WITH AND WITHOUT LIGHT

Condition	Temperature, °C	Time, min.	Ink Drop at Start, cm	Ink Drop at End, cm	Distance Moved, cm
Light					
Dark					

3. _____

4. _____

_____

5. _____

_____

_____

6. _____

B. BE GRATEFUL FOR "BUBBLES"

7. _____

_____

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8. _____

_____

9. _____

_____

10. _____

11. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. CAN YOU PREDICT?

1. _____

_____

2. a. There are different amounts of sugar in each tube. _____

b. _____

c. _____

d. _____

e. _____

3. _____

_____

4. _____

B. LET'S TEST YOUR PREDICTION

5. _____

6. _____

_____

7. _____

_____

C. LOOKING FOR SOMETHING?

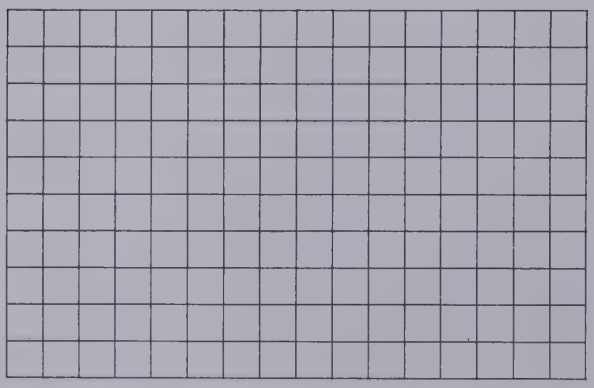
8. _____

_____

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TABLE NO. 1

GRAPH NO. 1



Name Date Class

9. _____

_____

10. _____

_____

D. IT NEVER ENDS

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

CONCEPT SUMMARY:

_____

_____

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Name _____

Date _____ Class _____

Data Sheet

A. TIME FOR ANOTHER MODEL

B. IT'S A REAL GASSER

TABLE NO. 1

Condition of Seed	Movement of Ink Drop in 3-5 Minutes, mm		
	Ink Drop at Start, mm	Ink Drop at End, mm	Distance Moved, mm

1. _____

_____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

C. LET'S FINISH THE MODEL

10. _____

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11. _____

12. _____

13. _____

14. _____

15. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. THE CITY IS ALIVE

B. A POPULATION OF FLEAS?

1. _____

2. _____

3. _____

_____

C. AN ORGANIZED POPULATION

4. _____

_____

5. _____

_____

6. _____

_____

D. WHAT IS A COMMUNITY?

E. HAPPINESS IS A PEACEFUL COMMUNITY

7. _____

_____

8. _____

_____

9. _____

_____

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10. _____

_____

11. _____

_____

_____

12. _____

_____

13. _____

_____

14. _____

15. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. WHERE DO THEY GO?

1. _____

2. _____

_____

3. _____

4. _____

_____

5. _____

_____

6. _____

_____

7. _____

_____

8. _____

9. _____

10. _____

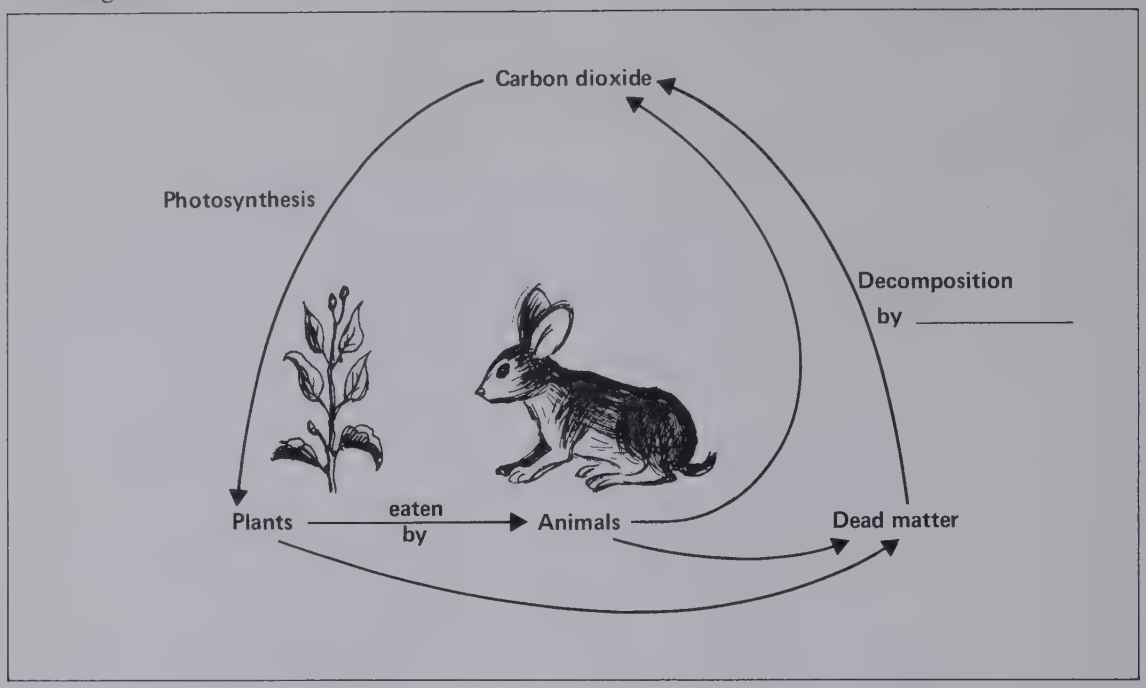
_____

11. _____

_____

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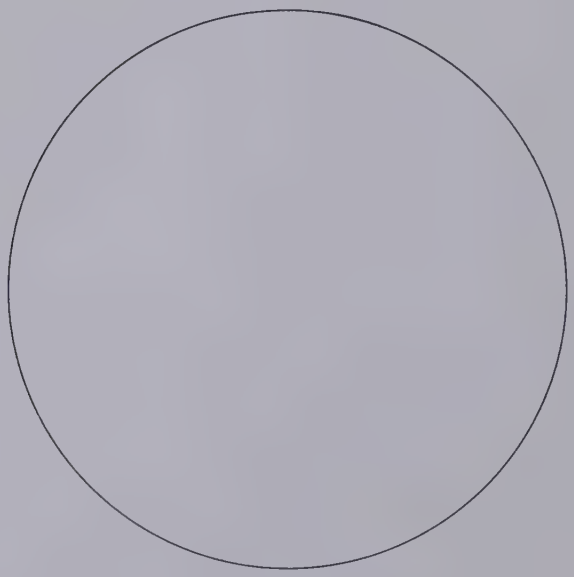
12. Diagram 1



B. DON'T COME NEAR ME

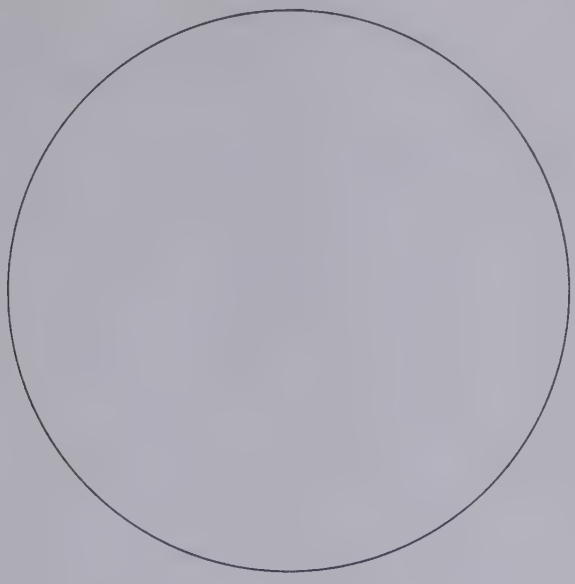
C. WHAT'S IN MY DISH?

Space *a*



Name Date Class

Space *b*



13. _____

_____

14. _____

_____

_____

15. _____

16. _____

D. A FOOD WEB

17. _____

18. _____

19. _____

20. _____

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21. _____

22. _____

23. _____

24. _____

_____

25. _____

26. _____

_____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. NOT A CREATURE WAS STIRRING

1. _____

_____

2. _____

_____

3. _____

B. NO MAN IS AN ISLAND

Space *a*



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C. A WHOLE WORLD IN A BOTTLE

4. _____

5. _____

_____

6. _____

7. _____

8. _____

9. _____

10. _____

_____

11. _____

12. _____

_____

D. CAN YOU BALANCE A TREE?

13. _____

14. _____

15. _____

16. _____

CONCEPT SUMMARY:

_____

_____

Name _____

Date _____ Class _____

Data Sheet

A. HELP, I NEED AIR

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

TABLE NO. 1

PRESENCE OF OXYGEN IN VARIOUS SAMPLES OF WATER

Sample	Color Reaction	Condition of Water	Source of Water

7. _____

8. _____

_____

B. PLEASE DO NOT FEED

9. _____

10. _____

_____

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11. _____

_____

C. THE MURDER OF A RIVER

D. SOCK IT TO ME

CONCEPT SUMMARY:

_____

_____

You have completed a series of 10 investigations. They all have one idea in common. State this idea in your IDEA Summary.

IDEA 1 SUMMARY

Investigation Number	Concept
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____

You have completed a series of investigations. They all have one idea in common. Read the concepts listed above. Now state the idea that combines them all.

IDEA SUMMARY:

_____

_____

IDEA 2 SUMMARY

Investigation Number	Concept
____	_____
____	_____
____	_____

IDEA 3 SUMMARY

Investigation Number	Concept
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____

You have completed a series of investigations. They all have one idea in common. Read the concepts listed above. Now state the idea that combines them all.

IDEA SUMMARY:

_____

_____

IDEA 4 SUMMARY

Investigation Number	Concept
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____

You have completed a series of investigations. They all have one idea in common. Read the concepts listed above. Now state the idea that combines them all.

IDEA SUMMARY:

_____

_____

IDEA 5 SUMMARY

Investigation Number	Concept
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____
____	_____

You have completed a series of investigations. They all have one idea in common. Read the concepts listed above. Now state the idea that combines them all.

IDEA SUMMARY:

_____

_____

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